



**Ash Development
Association of Australia**

Ash Development Association of Australia Incorporated

Registered No. Y 13273-40

**An incorporated Association under the NSW
Associations Incorporation Act 1985**

Prospective Member Information Package

July 2009

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INTRODUCTION

Australian producers and marketers of power station coal ash¹ formed the Ash Development Association of Australia Inc (ADAA) in 1991. Since its formation the association has grown to become a truly national organisation representing coal fired power station, processing and consumer organisations from all States within Australia with the primary objectives to conduct research and technology transfer on behalf of members and to assist in developing market opportunities for coal combustion products (CCP) use.

The activities of the ADAA are primarily focused on increasing users, stakeholders and regulators awareness of the benefits arising through the effective utilisation of CCP, which are valuable mineral resources. The objects [purpose] of the Association have remained mainly unchanged [sic terminology amendments] since its inception, these are;

- To provide technical assistance to CCP producers, marketers and users
- To stimulate research and development into CCP “pre-commercial” uses (high volume)
- To provide members with a forum for the exchange and publication of CCP information
- To promote and stimulate the use of CCP consistent with member’s goals as developed
- To investigate and exploit the technical and characteristic merits of CCP in the sectors where use already has been established or may be further developed for the material
- To collect, classify and transmit to members procurable data which pertains to the present or possible uses of CCP
- To provide information for the purpose of educating key influencers (e.g. Specifying Engineers, Designers/Architects, and Product manufacturers and others) interested in using CCP
- To co-operate with other Associations, Technical societies, Laboratories and governmental agencies to the end that full recognition be accorded to CCP, in all uses that may be developed for it, as a well-defined, technically desirable mineral, and
- To recognise that in the pursuit of the objectives of this Association all laws of Australia and New Zealand and their various State and Territories shall be upheld to the fullest and that any conduct or activity contrary to this principle shall not be condoned and further, appropriate disciplinary action, including expulsion, shall be taken.

In achieving these objectives the ADAA has focused on increasing key potential users and influencer’s awareness of the benefits arising through the utilisation of this valuable industrial by-product, resulting in direct benefits to industry members, the environment and the community as a whole.

A summary of the key CCP production and utilisation statistics from our industry members for the calendar period 2008 are;

- Approximately 14.5 Mt (million tonnes) of CCP were produced within Australasia (Australia and New Zealand). On a per capita basis, this equates to about 660 kgs per person
- Average ash content has remained unchanged over the period. E.g. Since 2007 ash contents of coal used in bituminous [black] coal fired power stations were 22.4% (2007) to 22.3% (2008), similar negligible changes for sub-bituminous and lignite [brown] coal ash contents
- Some 4.584 Mt or 32 percent of CCP have been effectively utilised in various value added products or to some beneficial end over the period. On a per capita basis, this equates to about 206 kgs per person recycled or reused

¹ When coal is burnt in a modern pulverised fuel furnace, two types of ash products are produced. The fine ash, which is recovered from the flue gas, is called fly ash (FA). This material can comprise up to 90% of the total ash produced. The remainder consists of similar particles that have fused together into aggregate sized lumps. These fall to the bottom of the furnace and are known as furnace bottom ash (FBA). Our industry has adopted the internationally consistent term “Coal Combustion Products” or CCP to categories and differentiate these ash products from other furnace residues.

- 12.3 percent or 1.787 Mt was used in high value added applications such as cementitious applications or concrete manufacture. This use resulted in more than 1.42 million tonnes of CO₂-e being abated through reduced clinker manufacture
- 4 percent or 0.5 Mt was used in non-cementitious applications
- 15 percent or 2.2 Mt was used in projects offering some beneficial use (e.g. onsite mine site remediation, local haul roads etc.). These uses typically generate no economic return, that is cost recovery only
- Surplus CCP (10.1 Mt) are typically placed into onsite storage ponds awaiting some future opportunity for economic reuse.
- More than 27 million tonnes of CCP [fly ash] has been use in cementitious applications or concrete manufacture from 1975 to 2008 [33 years] or 19.5 million tonnes of CO₂-e being abated through reduced clinker manufacture

ADAA INC VISION, MISSION AND OBJECTIVES

Vision

For the Association to be recognised as an effective industry organisation, nationally and internationally, in representing the interests of its members in the further development and management of coal combustion products (CCP).

Mission

The Association's mission is to foster the increased utilisation of coal combustion products (CCP), through the promotion of the environmental, economic and technical advantages, to benefit members and the community as a whole.

Current Core Objectives;

- To provide industry representation and advocacy on behalf of ash producers, marketers and users;
- To stimulate, facilitate, and conduct fundamental research and development into ash usage leading to increased utilisation; and
- To provide a forum for the exchange and publication of ash information with key stakeholders.

MEMBERSHIP, GOVERNANCE AND MANAGEMENT STRUCTURES

The ADAA is incorporated under the Associations Incorporation Act 1984 (NSW) Registered No. Y 13273-40. It is a not-for-profit making organisation which carries out research and technology transfer on behalf of its members. As such, it is exempt from paying income tax in Australia.

The association has adopted a constitution setting out its governance, membership structures and rights. In summary,

This Association has three grades of membership:

- **Full membership** is open to producers and marketers of coal combustion products CCP produced by burning pulverised coal in power stations. The annual membership fee for full members is determined from the amount of CCP sold by the member in the previous financial year. The **minimum**² annual fee for full members is currently \$4400 for producers and marketers, all fees are inclusive of GST. Full members have voting rights at all Association meetings.
- **Associate and Overseas Membership** is open to any organisation or individual interested in the objects of the Association. The annual membership fee for Associate is \$825 inclusive of

² Membership fees are calculated using a levy system based on membership survey results for the preceeding year. Where a member's production/sales for that year are below the threshold, the minimum fee applies.

GST and overseas membership is \$750. Associate and Overseas Members are encouraged to attend and participate in all association activities and meetings, however they do not have voting rights.

The association operates on the basis of consensus and where required the majority rule applies. Accordingly, all matters related to changes to our objects must be put before the association members and require a vote. The ideals of consultation and cooperation are encouraged for the development of all positions to be taken by the association on the matters of CCP utilisation. The governance of the association provides appropriate structures and mechanisms for member participation, consistent with rights associated with each grade.

A **General Meeting** of all members will be the ultimate governing body of the association and will be responsible for resolving, at least annually the following,

- To receive annual financial statements and adopt where appropriate;
- To elect members to the management [Board of Directors] committee;
- Receive other general business.

The **Management Committee** consisting of elected members from the General Meeting are responsible for all matters relating to the monitoring and review of the association business goals between General Meetings, responsibilities include:

- Meet a minimum of three times each year to conduct its regular business;
- To govern the organisation rather than manage;
- To review and approve business plans which are consistent with policy and goals of the association;
- To make decisions on proposals proposed by management, which are consistent with the objects as determined by the General Meeting from time to time.

Technical and Research committee meetings are convened at regular intervals, responsibilities include:

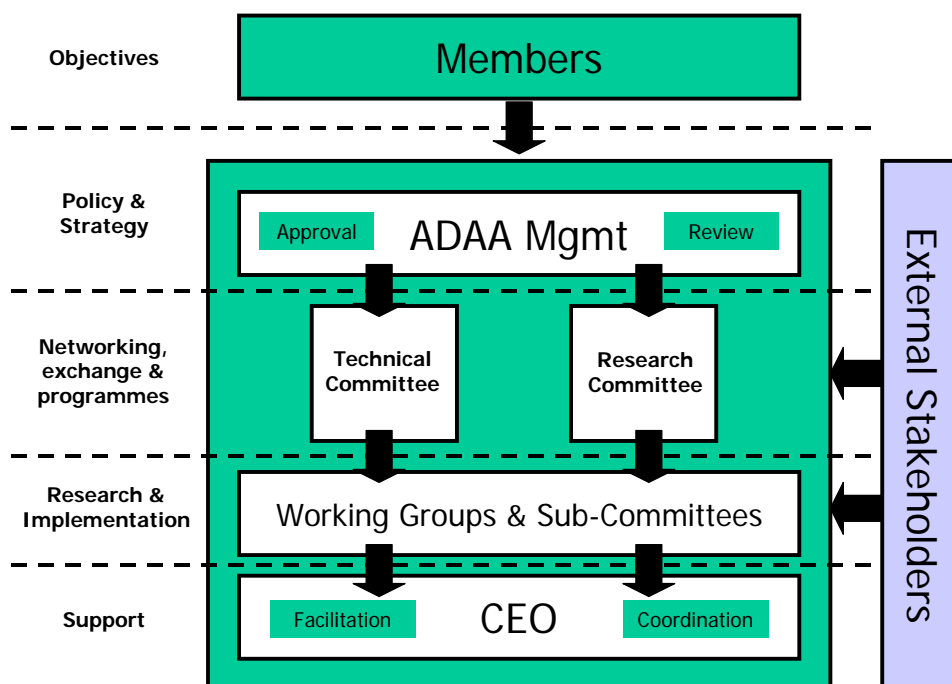
- Meet three (3) times annually;
- Represent the association on appropriate standards committees;
- Discuss and debate matters consistent with our objects and considered relevant to members and develop positions;
- To share and exchange information on policy, legislation and industry developments;
- To focus on technical and research program issues with guest speakers invited on occasion;

The association **secretariat** support is provided through a specialist contract management company (HBM Group). The secretariat is responsible for managing the day-to-day operations, provision of support staff, the management of consultants, research and development organisations and member relationships. Figure 1 exhibits the governance and organisational structures.

In particular, the secretariat through the appointed Chief Executive Officer shall be is responsible for the management and further development of the ADAA objectives:

- To represent the Association at all levels of government and help facilitate the continued growth in the beneficial utilisation of CCP;
- To represent the ADAA at conferences and meetings which are of relevance to the Associations objectives and consistent with current priorities;
- To maintain and grow membership revenue streams, through increasing participation rates of marketers and producers;
- To provide strategic management and leadership of the Association and relevant program in consultation with the chairman and the management committee.

Figure 1 – Governance and organisational structure



STRATEGIC POLICY AND PLANS

The association industry business plan guides activities and direct resources appropriately. The objectives established in 2008 will guide the management committee.

The association has committed to three (3) key themes, these are:

Encourage the development of consistent, appropriate and supportive legislation and or regulation for the increased use of CCP throughout Australia:

- Promote nationally consistent environmental standards for CCP classification;
- Collect and capture appropriate data on material characteristics to increase our understanding of CCP properties;
- Gain increased membership representation in QLD and VIC;
- Encourage the continued growth in the beneficial utilisation of CCP;
- Increase involvement of member representatives (particularly generators).

Stimulate, facilitate and conduct research and development that identifies cost-effective high volume utilisation applications for CCP:

- Deliver education program to key stakeholders improving the general awareness of CCP properties;
- Compile central data base of industry contact - expand our reach to industry participants;
- Identify new market uses for CCP e.g. Agriculture, mine site remediation (mine back fill), manufactured aggregates;
- Encourage, support and provide feedback to other research organisations working on CCP.

Provide and participate in forums to exchange, foster and develop users understanding of CCP properties and the potential end use applications

- Monitor and report progress of existing research and development projects;
- Encourage other research organisations to investigate CCP use;

- Investigate strategic opportunities for collaborative research.

PROMOTIONS AND TECHNOLOGY TRANSFER

Activities undertaken by the Association to promote the use of CCP include:

- Attendance at conferences and seminars, presenting papers and trade displays.
- Conducting internal seminars on CCP usage for companies and organisation's.
- Publication of Technical Notes and Reference Data Sheets, which covers the uses of CCP and particularly ADAA research and results.

FUNDAMENTAL RESEARCH ACTIVITY

Scientific research is carried out directly through contract research or by collaborative agreement, where the cost is shared between ADAA and other interested parties.

To review projects initiated to date please visit our website at www.adaa.asn.au

LIST OF MEMBERS AND ASSOCIATES – JULY 2009

Adelaide Brighton Cement	Blue Circle Ash
Cement Australia	Cemex
CS Energy	CSIRO (CMIT)
Delta Electricity	D2G Joint Venture
Eraring Energy	Flinders Power
Flyash Australia	Heeley's Consulting
HRL Technology	Hyrock
Independent Fly Ash Brokers	Intergen (Millmerran)
International Power	Loy Yang Power
Nucrush	Pozzolanic Enterprises
Rio Tinto	Roads Traffic Authority of NSW
Stanwell Corporation	Tarong North Power Station
Tarong Energy Corporation	TRUenergy
Verve Energy	

Hon. Life Members

Barry Butler	Peter Heeley
Ron McLaren	Peter Nelson

Reciprocal Memberships

Energy Supply Association of Australia
 UK Quality Ash Association
 American Coal Ash Association

ASSOCIATION RULES

The Association has adopted the model rules of the New South Wales Associations Incorporation Act with minor modifications to suit the Association's needs. Copies are available upon request.

***Ash Development Association of Australia
 July, 2009***

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